

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
09	986635		071	11/09/2001	JOOS, NATHANIAL	Novel unitized regenerative fuel cell with bifunctional fuel cell humidifier and water electrolyzer



















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Application # 10231828						
Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/592347	6706429	150	06/13/2000	FRANK, DAVID	CATALYTIC HUMIDIFIER AND HEATER, PRIMARILY FOR HUMIDIFICATION OF THE OXIDANT STREAM FOR A FUEL CELL
	09/592643	6541141	150	06/13/2000	FRANK, DAVID	WATER RECOVERY IN THE ANODE SIDE OF A PROTON EXCHANGE MEMBRANE FUEL CELL
	09/592644	6436563	150	06/13/2000	FRANK, DAVID	WATER RECOVERY, PRIMARILY IN THE CATHODE SIDE, OF A PROTON EXCHANGE MEMBRANE FUEL CELL
	09/592645	6602625	150	06/13/2000	FRANK, DAVID	FUEL CELL WITH DUAL END PLATE HUMIDIFIERS
	09/592950	6746789	150	06/13/2000	FRANK, DAVID	CATALYTIC HUMIDIFIER AND HEATER FOR THE FUEL STREAM OF A FUEL CELL
	09/713519	6422003	150	11/15/2000	FRANK, DAVID	NOX CATALYST EXHAUST FEEDSTREAM CONTROL SYSTEM
	09/713766	6358813	150	11/15/2000	FRANK, DAVID	METHOD FOR INCREASING THE CAPACITANCE OF A SEMICONDUCTOR CAPACITOR
	09/805792		030	03/13/2001	FRANK, DAVID	Self-healing multi-level telecommunications network
	09/854362		092	05/15/2001	FRANK, DAVID	APPARATUS FOR AND METHOD OF FORMING SEALS IN FUEL CELLS AND FUEL CELL STACKS
	09/855018		041	05/15/2001	FRANK, DAVID	Flow field plate for a fuel cell and fuel cell assembly incorporating the flow field plate
	09/900469		041	07/09/2001	FRANK, DAVID	Chemical hydride hydrogen generation system and an energy system incorporating the same
	09/986635		071	11/09/2001	FRANK, DAVID	Novel unitized regenerative fuel cell with bifunctional fuel cell humidifier and water electrolyzer
	09/986636		094	11/09/2001	FRANK, DAVID	CHEMICAL HYDRIDE HYDROGEN GENERATION SYSTEM AND FUEL CELL STACK INCORPORATING A COMMON HEAT TRANSFER CIRCUIT
	09/986637	6727012	150	11/09/2001	FRANK, DAVID	METHOD AND APPARATUS FOR GENERATING HYDROGEN INSIDE OF A FUEL CELL
	09/986638	6737184	150	11/09/2001	FRANK, DAVID	CHEMICAL HYDRIDE HYDROGEN GENERATION SYSTEM AND AN ENERGY SYSTEM INCORPORATING THE SAME

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09/986636		094	11/09/2001	FRANK, DAVID	CHEMICAL HYDRIDE HYDROGEN GENERATION SYSTEM AND FUEL CELL STACK INCORPORATING A COMMON HEAT TRANSFER CIRCUIT
09/986637	6727012	150	11/09/2001	FRANK, DAVID	METHOD AND APPARATUS FOR GENERATING HYDROGEN INSIDE OF A FUEL CELL
09/986638	6737184	150	11/09/2001	FRANK, DAVID	CHEMICAL HYDRIDE HYDROGEN GENERATION SYSTEM AND AN ENERGY SYSTEM INCORPORATING THE SAME
10/008092	6506660	150	11/13/2001	FRANK, DAVID	SEMICONDUCTOR CAPACITOR WITH NANOSCALE FEATURES
10/016132		041	12/17/2001	FRANK, DAVID	Chemical hydride hydrogen reactor and generation system
10/084442		030	02/28/2002	FRANK, DAVID	Catalytic humidifier and heater for the fuel stream of a fuel cell
10/086862		093	03/04/2002	FRANK, DAVID	CATALYTIC HUMIDIFIER AND HEATER FOR THE FUEL STREAM OF A FUEL CELL
10/091632		160	03/04/2002	FRANK, DAVID	Method of and system for facilitating lease financing related applications
10/109002		071	03/29/2002	FRANK, DAVID	Fuel cell flow field plate
10/135518		030	05/01/2002	FRANK, DAVID	Hydrogen production and water recovery system for a fuel cell
10/223706		041	08/20/2002	FRANK, DAVID	Regenerative dryer device and method for water recovery, primarily in the cathode side, of a proton exchange membrane fuel cell
10/280255		041	10/25/2002	FRANK, DAVID	Carrier security system
10/408954		041	04/08/2003	FRANK, DAVID	Method and apparatus for monitoring catalyst efficiency and outlet oxygen sensor performance
10/639098		020	08/12/2003	FRANK, DAVID	Agent-based personal object management
10/639687		030	08/13/2003	FRANK, DAVID	End plate and method for producing same
10/639689		020	08/13/2003	FRANK, DAVID	Terminal plate and method for producing same
10/643193		030	08/18/2003	FRANK, DAVID	Circuits and methods for characterizing random variations in device characteristics in semiconductor integrated circuits
10/650400		030	08/28/2003	FRANK, DAVID	Strained silicon-channel mosfet using a damascene gate process
10/662709		030	09/15/2003	FRANK, DAVID	Connection device and method of forming a connection device
10/685201		030	10/14/2003	FRANK, DAVID	Fuel control failure detection based on post O2 sensor
10/706925		030	11/14/2003	FRANK, DAVID	Apparatus for and method of forming seals in fuel cells and fuel stacks
10/712059		018	11/14/2003	FRANK, DAVID	Apparatus for and method of forming seals in fuel cells and fuel stacks
10/712060		018	11/14/2003	FRANK, DAVID	Apparatus for and method of forming seals in fuel cells and fuel stacks
10/721888		030	11/26/2003	FRANK, DAVID	Catalytic humidifier and heater, primarily for humidification of the oxidant stream for a fuel cell
10/722545		020	11/28/2003	FRANK, DAVID	Regenerative power supply system and components thereof
10/729384		020	12/08/2003	FRANK, DAVID	Gas diffusion layer for an electrochemical cell
10/762729		019	01/23/2004	FRANK, DAVID	Apparatus for and method of forming seals in fuel cells and fuel cell stacks
10/778322		019	02/17/2004	FRANK, DAVID	Fuel cell voltage measuring assembly
60/182513		159	02/15/2000	FRANK, DAVID	Telephone rate display and debit modem

	60/274525		159	03/08/2001	FRANK, DAVID	System and methodology for facilitating lease financing
	60/327164		159	10/04/2001	FRANK, DAVID	National in-flight security system
	60/329495		159	10/15/2001	FRANK, DAVID	Telephone rate display and debit modem
	60/341753		159	12/21/2001	FRANK, DAVID	Method and apparatus for directly generating hydrogen inside of a fuel cell
	60/347997		159	10/26/2001	FRANK, DAVID	Mail carrier security system
	60/379992		159	05/13/2002	FRANK, DAVID	Machine, method and article of manufacture for remote aircraft control systems
	60/379995		159	05/13/2002	FRANK, DAVID	Machine, method and article of manufacture for a scalable TCP/IP chemical detection network
	60/384167		159	05/31/2002	FRANK, DAVID	Scalable shipping container inspection network
	60/385497		159	06/04/2002	FRANK, DAVID	Machine, method and article of manufacture for a scalable shipping container inspection network
	60/404661		159	08/20/2002	FRANK, DAVID	Biological agent selective eradication for mail carrier services using a multi step process
	60/415105		020	10/02/2002	FRANK, DAVID	End plate for electrochemical cell stack and method of manufacturing the same
	60/429310		020	11/27/2002	FRANK, DAVID	Mobile power supply using fuel cells and regenerative hydrogen systems
	60/431235		020	12/06/2002	FRANK, DAVID	Gas diffusion layer for an electrochemical cell
	60/433451		020	12/13/2002	FRANK, DAVID	Shipping container radioactive monitoring system
	60/442068		020	01/24/2003	FRANK, DAVID	Apparatus for and method of forming seals in fuel cells and fuel cell stacks
	60/442069		020	01/24/2003	FRANK, DAVID	Pre-assembled flow field plates for electrochemical cells and electrochemical cell assemblies incorporating the flow field plates
	60/447289		020	02/14/2003	FRANK, DAVID	Fuel cell voltage measuring assembly
	60/450172		020	02/26/2003	FRANK, DAVID	Miniature radioactive sensor system
	60/450234		020	02/26/2003	FRANK, DAVID	Convex/particle trap neutron detector
	60/464093		020	04/21/2003	FRANK, DAVID	Apparatus for and method of forming seals in fuel cells and fuel cell stacks
📎	60/495089		020	08/15/2003	FRANK, DAVID	End plate for an electrochemical cell stack
📎	60/495090		020	08/15/2003	FRANK, DAVID	Electrical connection assembly for an electrochemical cell stack
📎	60/495092		020	08/15/2003	FRANK, DAVID	Flow field plate for electrochemical cells
📎	60/504220		020	09/22/2003	FRANK, DAVID	Flow field plate for an electrochemical cell
📎	60/504222		020	09/22/2003	FRANK, DAVID	Seal for an electrochemical cell
📎	60/504223		020	09/22/2003	FRANK, DAVID	Electrolyzer
📎	60/504227		020	09/22/2003	FRANK, DAVID	Electrolyzer cell stack system
📎	60/524520		020	11/24/2003	FRANK, DAVID	Chemical and biological detection using multiple non-specific coatings
📎	60/524526		020	11/24/2003	FRANK, DAVID	Advanced optical readout method for micro-cantilever array
📎	60/524694		020	11/24/2003	FRANK, DAVID	Chemical and biological detection using combined surface reaction and spectrum absorption methods
📎	60/543153		020	02/10/2004	FRANK, DAVID	Medical analyzer using MEMs devices
📎	60/568535		020	05/07/2004	FRANK, DAVID	Replaceable mouth-piece for calorimetric spectrometer sensor

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	09/854362		082	05/15/2001	CARGNELLI, JOSEPH	APPARATUS FOR AND METHOD OF FORMING SEALS IN FUEL CELLS AND FUEL CELL B
	09/855018		041	05/15/2001	CARGNELLI, JOSEPH	Flow field plate for a fuel cell and fuel cell assembly incorporating the flow field plate
	09/984643	6726187	150	10/30/2001	CARGNELLI, JOSEPH	HUMIDIFIER
	09/986635		071	11/09/2001	CARGNELLI, JOSEPH	Novel unitized regenerative fuel cell with bifunctional fuel cell humidifier and water
	10/122125		030	04/15/2002	CARGNELLI, JOSEPH	System and method for management of gas and water in fuel cell system
	10/122137		071	04/15/2002	CARGNELLI, JOSEPH	Manifold for a fuel cell system
	10/138335	6619054	150	05/06/2002	CARGNELLI, JOSEPH	CONDENSER FOR DEHUMIDIFYING GAS
	10/461870		030	06/16/2003	CARGNELLI, JOSEPH	System and method for management of gas and water in fuel cell system
	10/667888		030	09/23/2003	CARGNELLI, JOSEPH	System and method for process gas stream delivery and regulation using down spoc
	10/667898		020	09/23/2003	CARGNELLI, JOSEPH	Fuel cell system and method of operating the same
	10/667900		030	09/23/2003	CARGNELLI, JOSEPH	System and method for process gas stream delivery and regulation using open loop loop control
	10/667901		030	09/23/2003	CARGNELLI, JOSEPH	Fuel cell system and method of operating the same
	10/706925		030	11/14/2003	CARGNELLI, JOSEPH	Apparatus for and method of forming seals in fuel cells and fuel stacks
	10/712059		018	11/14/2003	CARGNELLI, JOSEPH	Apparatus for and method of forming seals in fuel cells and fuel stacks
	10/712060		018	11/14/2003	CARGNELLI, JOSEPH	Apparatus for and method of forming seals in fuel cells and fuel stacks
	10/722570		030	11/28/2003	CARGNELLI, JOSEPH	Method of operating a fuel cell power system to deliver constant power
	10/722577		020	11/28/2003	CARGNELLI, JOSEPH	Reactant supply for a fuel cell power system
	10/722578		020	11/28/2003	CARGNELLI, JOSEPH	Fuel cell power system and method of operating the same
	60/412547		020	09/23/2002	CARGNELLI, JOSEPH	System and method for process gas stream delivery and regulation using down spoc
	60/412548		020	09/23/2002	CARGNELLI, JOSEPH	Fuel cell system and method of operating the same
	60/412588		020	09/23/2002	CARGNELLI, JOSEPH	Fuel cell system and method of operating the same
	60/429317		020	11/27/2002	CARGNELLI, JOSEPH	Method of operating a fuel cell power system to deliver constant power
	60/429318		020	11/27/2002	CARGNELLI, JOSEPH	Fuel cell power system and method of operating the same
	60/429323		020	11/27/2002	CARGNELLI, JOSEPH	Reactant supply for a fuel cell power system
	60/568221		020	05/06/2004	CARGNELLI, JOSEPH	Crossover leak sensor and a fuel cell system incorporating the same